

# Notice of Allowability

Application No.

10/054,577

Examiner

Tonia L. Meonske

Applicant(s)

MOYER, WILLIAM C.

Art Unit

2181

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed 11/16/2006.
2. ☒ The allowed claim(s) is/are 1,4,5,9,10 and 13-21.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

- |  |  |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                      |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|  | 9. <input type="checkbox"/> Other _____.   |

## DETAILED ACTION

### *Allowable Subject Matter*

1. The following is an examiner's statement of reasons for allowance:
  - a. Referring to claim 1, the prior art of record has not taught "*selectively providing via said coprocessor communication bus said operand to be written in said register file based on the broadcast specifier, wherein said operand is provided to said coprocessor communication bus when the broadcast indicator indicates broadcasting is enabled and said operand is not provided to said coprocessor communication bus when the broadcast indicator corresponding to the selected one of said plurality of register indicates that broadcasting is not enabled*" in combination with the claimed providing, receiving and selecting steps.
  - b. Referring to claim 9, the prior art of record has not taught "*selectively providing via a coprocessor communication bus said operand to be written in said register file based on a current execution region of said processor, wherein the current execution region corresponds to a range of instruction addresses in which a current address indicated by a program counter of the processor falls*" in combination with the claimed receiving, selecting, providing, determining and not providing steps.
  - c. Referring to claim 10, the prior art of record has not taught "*storage circuitry which stores a set of broadcast specifiers, each broadcast specifier within the set of broadcast specifiers comprising a plurality of broadcast*

*indicators wherein each broadcast indicator corresponds to a register of the plurality of registers and indicates whether or not a write to the corresponding register is to be broadcasted” in combination with the claimed plurality of registers, circuitry for performing a write operation, circuitry for providing an operand, storage circuitry and the port.*

- d. Referring to claim 18, the prior art of record has not *taught “a port, coupled to an execution region control unit, for communicating with a coprocessor communication bus, said port comprising at least one coprocessor communication bus signal indicating a current execution region from the set of execution regions when the indicated address location falls within one of the set of execution regions”* in combination with the claimed plurality of registers, circuitry for performing a write operation, conductors for providing an operand, program counter unit and the execution region control unit.
2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

#### **EXAMINER’S AMENDMENT**

3. An examiner’s amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

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4. The application has been amended as follows:

a. According to MPEP 606.01, the title has been changed to:

"INTERFACING A PROCESSOR TO A COPROCESSOR IN WHICH THE  
PROCESSOR SELECTIVELY BROADCASTS TO OR SELECTIVELY  
ALTERS AN EXECUTION MODE OF THE COPROCESSOR"

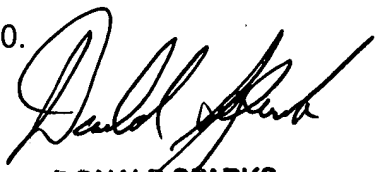
***Conclusion***

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tonia L. Meonske whose telephone number is (571) 272-4170. The examiner can normally be reached on Monday-Friday with first Friday's off.

3. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald Sparks can be reached on (571) 272-4201. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

4. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TLM

  
DONALD SPARKS  
SUPERVISORY PATENT EXAMINER

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tlm